THE MEDICAL EXAMINER,

And Retrospect of the Medical Sciences.

Vol. VI.]

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PHILADELPHIA, SATURDAY, OCTOBER 28, 1843.

[No. 21.

COURSE OF CLINICAL LECTURES,

Delivered at the Hôtel Dieu, Paris, for the Session 1842-'43.

BY A. F. CHOMEL, M. D.

LECTURE XIV.

RESUME OF THE ANNUAL CLINIC.

(Continued.)

RHEUM ATISM.

During the last year thirty-two cases of rheumatism have entered the wards, of which twenty-three occurred in the summer semester, and nine only in the winter. The contingent furnished by the women was nearly double that of the men; twenty for the former, and eleven for the latter. A large number of the patients were over forty years of age; there were very few under twenty. The majority of cases were relapses; three only were primitive. In a few one joint only was affected, but in the greater number the affection was ambulant, passing successively from one articulation to another; in many all the joints were affected at the same time. I have sought for the probable causes of the disease in all these various patients. The opinion generally received among physicians, ancient as well as modern, is that cold plays a conspicuous part in the production of this disease. Giacomini, a distinguished Italian physician, has greatly insisted on this cause. Facts, however, do not always confirm this opinion; or, rather, we are not always able to discover the relation which exists between the cause and the effect. In eight of our patients humidity and cold were recognised as influencing the production of the disease, or, at least, as a predisposing circumstance. In eight others there was very positive exposure to cold, preceding a short time the morbid phenomena, and which doubtless contributed notably to them. In the other cases sometimes humidity, sometimes suppression of the catamenia, and in two cases the post-puerperal condition seemed to develope the attack, more or less immediately. Finally, thirteen times it was impossible to determine an appreciable occasional cause; this is more than one-third of the number of cases of rheumatism this year-a very large proportion. This proves that this affection is, like many others, under the influence of an intense predisposition, of a constitutional cause, and that its progress and developement are often independent of any exterior cause; so that you should not, consequently, consider it as an ordinary plegmasia, but as specific inflammation

Rheumatism is usually ushered in with a chill; this occurred in about one-half the cases. Those who did not mention this symptom, did not probably recollect what they experienced at the commencement.

In twenty-four cases the disease attacked the joints of both the inferior extremities simultaneously. Once only did a single articulation suffer.

I am now going to consider a very important question, that, namely, of the complication of rheumatism with a morbid state of the heart, a complication which had been so much discussed within a few years past. The phenomena presented by auscultation in this disease are of great interest, inasmuch as they serve to establish what, probably, without this means of investigation, would have remained unperceived. But the manner of interpreting these phenomena, and explaining their relations with organic lesions of the heart, may lead to great errors. Thus, for example, when an anormal sound exists in the heart of a patient subject to rheumatism, the existence of a lesion of the organ need not necessarily follow. Autopsies of subjects who have died of rheumatism, or other affections complicating rheumatism, and in whom during life the existence of abnormal cardiac sounds have been ascertained, showed that in such cases there was very often no trace of disease of the heart. We may infer then that the semeiotic value of these morbid sounds is not yet perfectly appreciated; the perception of these sounds is, doubtless, useful as a sign of an abnormal phenomenon, but you should not lose sight of the fact also that these sounds may exist in the organ independent of any organic lesion. This being understood, we now arrive at the question of the coincidence of certain anormal sounds in the heart, and

Out of thirty-two rheumatismal patients, there were fourteen in whom there was a bruit de souffle, more or less marked, accompanying the first sound. In three, one of whom died, the pericardiac [friction] sound was heard. In fifteen cases, that is to say in nearly one-half, there was no abnormal bruit; two out of these fifteen died; the rheumatismal affection was not very marked in these two cases. In one of the two, however, a young woman twenty two years old, the symptoms were rather more positive. Ather entrance she offered all the symptoms of chronic bronchial catarrh; she had crackling at the base of the lung, cough with dyspnæa, &c., she had at the same time pains in the articulations. She was bled six times, and large doses of tartar emetic were administered. In spite (?) of this active treatment, she succumbed. At the autopsy we found in the synovial membrane of the affected joint, a quantity of synovia greater than in the normal state, with some albuminous floculi; there was neither redness, nor any other sign of genuine phlegmonous inflammation. The lung presented all the physical signs of hepatisation, the bronchiæ being likewise inflam-In the pericardium there was some serosity, a little cloudy, and some traces of injection, but no appearance of genuine phlegmasia. The chief seat of disease then, in this woman, was the lungs, which was in perfect accordance with the symptoms noticed during life.

The second case, which terminated in death, was that of a man in whom pus was found in one of the joints. Was this pus the product of a rheumatismal affection? This man previous to his entrance at the Hôtel Dieu, remained sometime at the Charité, to be treated for several abscesses in the feet; the purulent

collections were opened, and the patient seemed to be cured; pain was subsequently felt in the knee of the same side, which being attributed to rheumatism, he was sent to this service. On his arrival the patient gave us a very imperfect history of what he had previously suffered, but declared to us that he never had had rheumatism. You should remark that some time before this affection he had felt pain in the other knee. In the course of the disease he was attacked with severe pneumonia and died. At the autopsy we found synovia in the right knee in larger quantity than usual, but pure synovia and nearly natural. The left knee contained purulent serosity. The ex-The left knee contained purulent serosity. istence of this pus in the knee should not furnish a very conclusive argument in favor of the possibility of the termination of rheumatism in suppuration. In fact when you find purulent deposits pre-existent to a rheumatismal affection, can we say that these deposits are due to rheumatismal inflammation? Long before the work of Dr. Latour you will find numerous cases of muscular rheumatism terminating in suppuration, reported. This termination of rheumatism was then generally believed in. In my inaugural dissertation I discussed at length these cases, and will not recur to them here. I will content myself with remarking that often phlegmons are developed in the neighborhood of articulations, and which are accompanied with pain, heat, fever, and all other symptoms be-longing to the phlegmasiæ. Now, it is cases of this kind that are taken for articular rheumatisms, and these cases terminating in suppuration, this termination is referred to rheumatism, and not to the phlegmasia. This occurs oftener than we suppose; they have been the object of new researches, and they have been grouped under the head of articular rheumatism; but, all these facts I consider as exaggerations or as errors of diagnosis. Thus, a great number of these pretended cases of purulent rheumatism are sometimes phlebitis, with metastatic abscess of different organs and sometimes a genuine purulent diathesis. What is there then astonishing that pus has been found in the articulations?

In women recently delivered you see numerous abscesses developed in the articulations, as well as in other parts of the body, without the patient's having experienced any pains scarcely. These cases belong to the same group as the preceding; a purulent diathesis is always involved. At the same time that pus is found in the joints, you find purulent collections in other parts of the body, in the subcutaneous cellular tissue, for example; these abscesses cannot evidently be attributed to a rheumatismal cause, and why should the pus found in the joints have this origin? Why admit two different causes for effects of the same nature? There still exist two other causes of suppuration in articular rheumatism. One is the immoderate exercise which many persons suffering from rheumatism indulge in, exercise very often required from the nature of their occupation. In such cases, there is no doubt but that pus may form in the affected joints, but this suppuration is nothing more than an irritation consecutive to the constant motion of the limb; it is the result of an acute arthritis succeeding simple rheumatism. You conceive, consequently, that these cases prove little. In many of them upon which they argued, synovia alone and not pus was found in the articular capsule. Finally, many of them are so meager in sufficient details, that no inferences can be drawn from them.

Treatment .- I have not spoken of chronic rheumatism, but only of acute rheumatism with febrile Finally, it is neither wise nor prudent to abandon old

tion sui generis. In the treatment, we have used at the commencement, general and local bleeding, when the individual circumstances permitted it. These bleedings were followed by emollient fomentations, diaphoretic drinks and sometimes purgatives, according to the indications. Our attention was always especially directed to the complications, for these complications often occur in the lungs and brain; in such cases it is the pneumonia and the me. ningitis which should occupy us, as the graver affec-I do not share the opinion of those physition. cians who employ in such cases cold drinks; [prefer giving them blood warm. The diet should be very strict. Neither do I employ those heroic bleed. ings, coup sur coup in a single day; for the results obtained by this method, do not differ essentially from those obtained by the ordinary phlogistic treatment, In comparing patients treated by the two methods, I have found the same mean-18 days-for the duration of the disease. It is not necessary, therefore, to resort to these copious venesections, when moderate ones will suffice. The diaphoretic treatment I do not think a suitable one for acute rheumatism. At the furthest, I admit that it may be of some advantage in chronic rheumatism. When rheumatism is in the acute stage, and the pain is very violent, the slightest movement causes pain. Now the diaphoresis produced by the action of sudorifics, determine a certain degree of uneasiness, an excitement, which rather aggravate than diminish the morbid phenomena. Besides, when patients have a certain degree of perspiration, it is necessary to change their lines, which exposes them to cold, and to the production of a sudden dangerous suppression of perspiration. All these reasons united have induced me to renounce the employment of diaphoretics in the treatment of acute rheumatism, reserving them for a more advanced period of the disease, when it assumes the chonic character.

It has been customary to laud the use of tarter emetic in large doses in this affection. I have not much faith in its efficacy, in spite of the authority of Laennec, who was very partial to it. Rheumaism is very often cured by very different methods; consequently it is not necessary to seek unusual and often dangerous means. Besides, the results attributed to tartar emetic, I do not consider as sufficiently established. It is probable that Laennec, who was so patial to it, was deceived; I have not therefore, adopted

this plan of treatment.

Lately a highly respectable physician has employed heroic doses of quinine, in acute rheumatism, and others have followed the example; but, far from having the success they anticipated, they met with great reverses. I have not experimented with this remedy, because, I never believed that it could exer cise any beneficial influence over the disease. You know that the sulphate of quinine has two properties one anti-periodic, the other tonic. Now in rheumatism I never could perceive any indication which de manded either of these qualities. Besides, I adhere to the rule never to experiment upon man without grave reasons, and without taking every preciotion to prevent accidents. The results of the & periments made with the sulphate of quinine, have more than ever confirmed me in this circumspection I do not consider it, moreover, as a specific remediand the acknowledged rules of therapeutics has been disregarded in its employment. To fully appreciate the action of a remedy but little known you must experiment slowly and for a long time re-action. I have treated this affection as an inflamma- remedies, and adopt new ones whose mode of action exam) patier Pa

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is unknown and which often are inferior to the old ones. Such conduct in therapeutics, besides its bad example, leads often to fearful consequences for the natients.

Paris, June, 1843.

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A CASE OF SPINAL IRRITATION GIVING RISE TO SYMPTOMS SIMULATING CATALEPSY.

BY GEO. L. UPSHUR, M. D.

William S, coach-maker's apprentice, aged 90, of a lymphatic habit, was seized on the night of the first of October, with total insensibility, the want of animation being so complete that his friends thought he was dead, and had made preparations to shroud him. He remained in this state about two hours. I saw him early on the following morning. when his condition was as follows:-skin cool; pulse 90, soft and full; slight cephalalgia; pupils somewhat contracted; tongue clean, pale, and flabby; countenance expressive of languor; bowels constipated; appetite not disturbed; no tympanitis nor thirst; complained of frequent palpitations, accompanied by sharp, darting pains, alternately, on either side of the thorax; action of the heart preternaturally quick,-sounds normal; no alteration in the respirantory murmur. I then commenced an examination of the spinal column, beginning at the occipital ridge and making uniform pressure to the os coccygis. At the seventh cervical, and again at the last dorsal vertebrae, the patient cried out upon the slightest pressure being applied. He was not aware of the existence of these tender places until I made the tramination. On the night of the 2d inst. he had mother cataleptic paroxysm, being unconscious for the space of an hour. I did not see him during this attack, but was informed by his friends, that throughut the whole of it his eyes were closed, with the balls permanently fixed—his breathing was scarcely reepuble-had no flushing of the face, nor inordiate action of the carotids; he suffered himself to placed in any position without manifesting the least ition, and could not be aroused, either by loud ses, or the application of irritants to different ats of the surface. Consciousness returned with quent sighs and an appearance of great debility. on being questioned, he was ignorant that any g wrong had happened, and resumed the subject conversation with which he had been engaged prior to the paroxysm.

Treatment. After the first attack the patient was redered 3ij. ol. ricini, and the tender places in the ack to be frequently rubbed with a liniment composed of ol. tiglii, ol. terebirthinæ, tinct. canth., and ammon. After the second paroxysm he took one op of tiglii with five grains of calomel; and eight temps were applied along the dorsal vertebræ, to followed by a blister 3 in. by 6. In four days the lister healed, and the soreness had entirely disapared. He is now well and has had no return of catalepsy, nor other unpleasant sensations, since application of the cups and blister.

Remarks.—I look upon this case as not entirely roid of interest. The true pathology of catalepsy, well as that of tetanus, epilepsy, and several other rous diseases, has never been satisfactorily determed. Autopsies throw little or no light upon the leet, for these diseases, (especially catalepsy,)

are so rare that one, in an extensive practice, may pass a whole professional life without witnessing a The causes of catalepsy, as mentioned single case. in the works of authors, are numerous, but I have no where seen spinal irritation mentioned as one of them. The cause of the peculiar phenomena in catalepsy, beyond a doubt, is to be sought for in the cerebro-spinal centres as is demonstrated by the complete lack of energy on the part of the brain, and the condition of the muscular system, during each attack. Spinal irritation first makes its appearance by the venous sinuses about the roots of the nerves becoming congested; this is rapidly followed by irritation of the adjacent neurilemes, May not the state of the brain in catalepsy be legitimately derived from this irritation of the nervous sheaths, upon the principle of reflex nervous action? A slight puncture of the smallest nervous filament in one of the extremities will not unfrequently develope tetanic spasms.

Richter, as quoted by Eberle, has recorded a case of intermitting fever, where every paroxysm was ushered in by cataleptic seizure. In the case above detailed, I was at first disposed to attribute the catalepsy to the same cause, but, upon further inquiry was informed that the patient had been subject to similar attacks for six months, without any tendency to regularity in their occurrence: that he would sometimes have three fits in the course of twenty-four hours, and then perhaps a whole week would elapse without a single one. The non-appearance of fever after the subsidence of each attack, would also disprove the intermittent tendency.

I report this case, not only as something anomalous, but also because it is calculated to throw some light upon the diagnosis and pathology of nervous diseases. Patients often present themselves to us, complaining of darting pains in different parts of the body; palpitation; gastric disturbance; suppression of the urinary, or other visceral secretions; and of a variety of other unpleasant sensations, more or less well marked, all of which may be traced to a single tender place along the spine. Indeed, the symptoms which arise in some cases of spinal irritation are so numerous and so severe, as to distract the attention of even the most cautious physician from the true seat of the disease, and the treatment, in consequence, is directed into the wrong channel.

Norfolk, (Va.) Oct. 23d, 1843.

BIBLIOGRAPHICAL NOTICE.

A Practical Treatise on the Diseases of the Testis and of the Spermatic Cord and Scrotum, with Illustrations. By T. B. Curling, Lecturer on Surgery, &c. Edited by P. B. Goddard, M. D., M. A. P. S., M. A. N. S. &c. Philadelphia, Carey & Hart. 1843. 8vo. pp. 568.

No monograph was more needed by the medical profession than one on the Diseases of the Testis. The noble work of the late Sir Astley Cooper on this subject is, from its very nature and high price, beyond the reach of students and most surgical practitioners. It is a fine monument of talent, industry and observation; but it wants that conciseness and practical character, essential to popularity.

The present work is a very complete manual on a

most important class of diseases, derived from many, years of careful study and investigation, and a thorough practical knowledge supplied by abundant opportunities. Our author has, in general, availed himself fully and judiciously of the labors of his predecessors; we regret that he has not consulted more frequently the contributions of the present French Surgeons to the affections of this organ, more especially those of Velpeau, Berard, Vidal, Ricord, &c.; this omission is particularly glaring in the chapter on "Tubercular Disease of the Testis."

The first part is occupied with the Anatomy of the Testis. The account of the structure of the Gubernaculum and the descent of the testis is original with Mr. Curling, and is now generally admitted by anatomists. Part second treats of the "Diseases of the Testis," arranged under the following heads.

I. Congenital Imperfections and Malformations. II. Atrophy of the Testis. III. Injuries of the Testis. IV. Hydrocele. V. Hematocele. VI. Orchitis. VII. Tubercular Disease of the Testis. VIII. Carcinoma of the Testis. IX. Cystic Disease of the Testis. X. Fibrous Transformation of the Testis. XI. Ossific Deposits in the Testis. XII. Loose Bodies in the Tunica Vaginalis. XIII. Spermatocele. XIV. Fætal Remains in the Testis. XV. Entozoa in the Testis. XVI. Nervous Affections of the Testis. XVII. Sympathetic and Functional Disorders of the Testis. XVIII. Castration.

Part Third includes "Diseases of the Spermatic Cord." I. Varicolele. II. Adipose Tumors of the Cord. III. Spasm of the Cremaster Muscle.

"Diseases of the Scrotum" occupy the Third and concluding Part. I. Injuries of the Scrotum. II. Prurigo Scroti. III. Varicose Veins of the Scrotum. IV. Pneumatocele. V. Œdema Scroti. VI. Diffuse Inflammation of the Scrotum. VII. Mortification of the Scrotum. VIII. Elephantiasis Scroti. IX. Hypertrophy of the Scrotum. XII. Adipose Tumors of the Scrotum. XII. Fibrous Tumors of the Scrotum. An Appendix is added containing the recent discovery by Mr. Liston of Spermatozoa in the fluid of an encysted Hydrocele of the testis, with the author's observations and explanation of the occurrence of these bodies in this case.

From this summary of the contents of Mr. Curling's work an idea of its comprehensiveness will be obtained. When we say that the execution, with very few exceptions, corresponds with the conception, a very imperfect idea of its merits will be given. In a future number we shall present our readers with an analytical and critical notice. In the mean time we must express the great satisfaction that we have derived from its perusal, and urge upon all those who are anxious to possess a valuable book, its immediate purchase.

The American Editor, Dr. Goddard, has carefully revised the present edition, and made several additions of value. We cannot close our notice, without mentioning the typography of the volume, and the excellence of the Wood-Cuts, which are by Gilbert, many of them surpassing any of his previous efforts. The book is admirably printed, on thick white paper, with beautiful type, and dark ink, and complete justice has been done in striking off the cuts. We can conscientiously say that it is the best printed medical work that has issued from the press of this country, and quite equal in many re-

spects to the finest English editions. For this the pro-

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THE MEDICAL EXAMINER

PHILADELPHIA, OCT. 28, 1843,

INAUGURATION OF THE STATUE OF BICHAT, AT BOURG.

A magnificent statue, erected to the memory of the illustrious BICHAT, at Bourg, the capital of the Deput. ment of Ain, in the south-east of France, was inaugunt ed, with great pomp and ceremony, on the 24th of Augus last. The statue, which is by M. David, of Anger, is in bronze, and represents Bichat fixing his gaze on aliving infant, while at his feet is a dead body, partially dissered, ingeniously allegorical of his celebrated work on Life and Death." The departmental authorities, and thus of the town, assisted at the ceremony, and the statue wa unveiled amidst a salvo of artillery. Among the distin guished medical notabilities present, were M. Parise the Perpetual Secretary of the French Academy of Me dicine, M. Royer-Collard, on the part of the Medical Faculty of Paris, M. Hypolite Larrey, as representative of the Societe Medicale d'Emulation de Paris, of which Bichat was the founder; with others from Lyons, &c The brother and nephew of Bichat, with several other relatives, were also present. The above gentlemen a pronounced Eloges; individually and collectively the are bad; rhetorical flourishes, unmeaning rhapsodies, of dull, stupid details.

Whilst this magnificent ceremony was passing in an ob scure town in France, his tomb at Paris is in a lament able condition. Dr. LONDE, at a recent meeting of the Academy of Medicine, stated that having had his attention called to the subject, he had visited the spot when Bichat was buried, accompanied by two friends, who were A stone placed against th present at the interment. wall, in the old Cemetery of Saint Catharine, at Clama with the name of Bichat half effaced, alone indicates the spot. This cemetery has been disposed of by the city Paris, so that, unless some measures are speedily taket the remains of the illustrious founder of General Ania my will repose in a ditch. A proposition was made the Academy to purchase sufficient ground at Pere Chaise, deposit there the remains of the great philo pher, and erect over them a plain monument. Sever of the members were anxious that the remains should be transported to Bourg, and deposited beneath the month ment; but it was very properly answered, that the rep tation of Bichat was made at Paris, and that at Paris should be buried.

DEATH OF DR. JACOBSON, OF COPENHAGEN

Dr. Louis Levi Jacobson, chief physician to the Majesties the King and Queen of Denmark, died at the penhagen on the morning of the 29th of August laster a short illness, aged sixty-one years. Dr. Jacobson was born in Copenhagen in 1782, of respectable Jewis parents. The numerous and learned works which published, especially on anatomy, and which have better translated into all the European languages, led him to

appointed to two chairs-one in the University, and the other in the Academy of Surgery in Copenhagen-in spite of an ancient custom prevailing in Denmark, which excludes from the profession of teaching all others except those of the religion of the state, viz., that of the Confession of Augsburg. The present King of Denmark nised Dr. J. to the rank of Counseller of State; he was Chevalier of several orders, and was a member of almost all the learned societies of Europe. The Royal Academy of Sciences of Paris nominated him, in June, 1833, a corresponding member, in the place of the late Sir Everard Home; and, in the month of November of the same year, this learned body awarded to him the golden medal, of the value of 4,000 francs, for the invention of the Lithoclastre, et Brise-Pierre, an instrument for crushing calculi.

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DEATH OF DR. HARLAN.

We regret to announce the death of Dr. RICHARD HABLAN, late of this city, who died recently of apoplexy at New Orleans, whither he had lately removed. man of genuine science, few in the profession of our country could compete with Dr. H. As a naturalist he maked deservedly high both at home and abroad. A resident of Paris at the time his valuable collection of Comparative Anatomy was destroyed in this country, duplicates of many of the finest specimens at the Jardin des Plantes were immediately presented to him. Dr. Harlan was one of the earliest contributors to this journal; a number of valuable communications were furnished by him during his residence abroad.

ADULTERATION OF COMMON SALT AT PARIS.

Three years ago, it was found that of three thousand samples of common salt taken from the drugists of Paris, more than a tenth part was adulterated. The same fraud has just been discovered among a On making the visits enjoined number of grocers. by the law (which ought to take place in the other towns of France likewise,) it was found that samples showed traces of copper, and were adulterated with a large proportion of impure carbonate of soda (sel de varech,) containing iodine. Three specimens contained small crystals of a salt of copper. - Lon. Med. Gaz. from Gazette Medicale, August 26, 1843.

A NEW KNIFE FOR THE OPERATION OF CATARACT.

BY JOHN SCOTT, Surgeon to the London Hospital, &c.

"The back of the knife describes a sixth part of the circumference of a circle, the radius of which is len lines. The chord of the arc formed by the back of the knife is, of course, also ten lines in length, being equal to the radius of that circle. The knife is two ines in width at the heel, whence it gradually tapers to the point; it also increases uniformly in thickness, as well as in width, from point to heel." There are four plates to the treatise, the first of which gives a e view of the whole matter. A circle is noticed as occuring in the text, the important parti- from Gazette Medicale, Sept. 22, 1843.

culars of the knife having its convex edge sharp on cutting, and its concave edge the reverse, are marked in the diagram. Now for its application. Mr. Scott most justly observes, that the great objection to the knives of Wurzel and Beer are, that they act both as a wedge and a cutting instrument at the same time, in consequence of which the force applied in thrusting them through the anterior chamber tends to turn the eye inwards "to the nasal canthus of the orbit, whereby the inner side of the cornea is obscured from the view of the operator; he is unable to puncture it close to its sclerotic margin, and in consequence, the section is too small for the escape of the cataract." To correct this tendency to inversion, when the wedge knives are used, pressure is often had recourse to on the nasal aspect of the globe, and between the two stools, it often has happened that the lens, vitreous humor, and all, have come to the ground—a feat which has been performed before now in simpler operations than those for cataract. "Scott's knife" is intended to make the necessary section of the cornea for the exit of an opaque lens, without being open to the faults of the other knives which we have mentioned, and at the same time with greater security to the iris than they afford. Those proposed objects in the construction of the instrument are thus numerically stated by our author :-

That it shall be of sufficient length to traverse completely the anterior chamber, and divide the

nasal margin of the cornea.

That it shall increase in width and in thickness from point to heel, enough only to prevent the escape of the aqueous humor in its transit across the anterior chamber, but that its width shall have no reference to the dimensions of the section that is to be made, as that circumstance, I conceive, has occasioned all the difficulty of its introduction, and the chief danger of the operation.

That it shall be of such a shape and figure that when introduced in the middle of the temporal margin of the cornea, and carried across the anterior chamber, it shall readily puncture the nasal side of the membrane; and when placed in this situation, the cutting edge shall be so far beyond the pupillary margin of the iris, and opposed to so large a portion of its anterior surface, as will prevent its escape beneath the edge of the knife to endanger its division in making

the section of the cornea.

4. That when the section of the cornea is thus about to be made, the edge of the knife shall be opposed only to the margin of the section on either side, and not to an extensive portion of its internal surface, whereby its division would be attended with difficulty, as is the case in using Beer's knife."—Provincial Medical Journal,

NARROW ESCAPE OF A DRUGGIST.

A Druggist was lately summoned before the police tribunal of the Seine, for having infringed the 34th article of the law of the 21st Germinal of the year XI, which enacts that poisons are to be kept in a separate place, and to be locked up, under a penalty of 3000 francs. The court was of opinion, however, that the sale of the poison was necessary to bring the offence within the meaning of the enactment; and as this had not occurred in the case before them, they described to represent the globe of the eye, and the merely put into execution the 471st article of the new knife is applied to the part corresponding to the penal code, and adjudged the druggist to pay a fine cornea. In addition to the points we have already of five frances, and the expenses.—Lon. Med. Gaz.

RETROSPECT OF THE MEDICAL SCIENCES.

ON THE [ALLEGED] CURE OF PULMONARY CON-SUMPTION WITH NAPHTHA.

BY JOHN HASTINGS, M. D.

Dr. Hastings states that the reason which induced him to deviate from that line of medical practice. which has so universally, and for so long a time, been in vogue, for that which he now brings forward, was the fatal termination of all cases, whatever was the treatment adopted, during an experience of upwards

of twenty years.

From the greasy nature of tubercle in its crude state, Dr. Hastings concluded that carbon entered largely into its formation, and that its composition had a striking resemblance to fatty matter. Among the changes in the earlier stages of pulmonary consumption, the disappearence of the fat is about the most remarkable; in consequence of this loss of fat, the author determined to employ those compound agents, rich in carbon and hydrogen, which had not been previously used in medicine; "not with the idea that they would make up the deficiency which the system had sustained in the progress of the disease, but that such a change would by that means be introduced into the constitution as would act upon the forces of the organism at the point of departure from health, whether that took place in the stomach, blood, or elsewhere; -that change tending to such an affinity in the elements within the body, that the carbon, hydrogen, oxygen and nitrogen, instead of assisting in the formation of products which threaten life, would tend to develope those materials only which are required for the perpetuation of health, and the prolongation of existence."

Accordingly Dr. Hastings was led to employ naphtha as a remedy in pulmonary consumption. Many different compounds pass under this name, but the kind of naphtha termed pyro-acetic spirit, obtained by the destructive distillation of an acetate, generally of lead or lime, and in its outward form scarcely distinguishable from pyroxilic spirit, is the species which is considered to be the best suited for this pur-

The following is the way in which Dr. Hastings

employs the remedy.

"I administer naphtha three times a day, in doses of fifteen drops for an adult, mixed with a table spoonful of water, which is proportionably decreased according as the patient approaches youth. After the second or third day, I increase the dose by about onefourth; regulating its increase or decrease, according to the increase or decrease of nausea, sickness, or any other untoward symptom arising out of its use. the disease advances, I increase the dose to forty and even fifty drops, and administer it four times a day, instead of three times.

"The successful use of naphtha as an internal remedy, induced me to try its effects by inhalation, to which I was the more inclined from the results of

the following experiments:-

"1st .- A little naphtha having been put into a bent tube, resembling the capital T, some expectorated matter was poured upon it, which had been determined with the microscope to be rich in globules of tubercle. Gentle heat was then applied, and the naphtha driven off, when the super-imposed secretion presented a mere shapeless mass of animal matter. the globules having entirely disappeared.

of the microscope, and a drop of naphtha added, when an immediate disappearance of the globales ensued, leaving behind a mass of the same character as in the former case. The frequent repetition of this experiment invariably led to the same result.

"3d .- Some tuberculous secretion of the lungs was put into a portion of the intestine of a child, and placed over a wide-mouthed bottle, which contained a small quantity of naphtha, between which and the intestine a clear space of three inches remained. A spirit lamp was then placed under the bottle, and a very gentle heat applied until slight ebullition took place, which was continued for an hour. The contents, when removed from the intestine and examined with the microscope, presented the same appearance as described in the previous experiments.

"Considerable benefit resulted from the inhalation of naphtha, in lessening the difficulty of breathing, in the most advanced cases, in rendering muscular efforts less painful and fatiguing, and in general alleviation of those symptoms which distress the consumptive patient. The expectoration is not unfrequently rather increased immediately after the inhalation of naphtha, but the cough has changed for one of a milder charan-Improvement was generally observed to follow that kind of inhalation which was performed with little exertion. It may be employed several times in the day, unless it produces nausea and sickness, when its use should be suspended; and on its being resumed, in such cases, it should be applied for a shorter period. When there is spitting of blood its use is

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"Almost immediately after naphtha has been administered, an occasional rising of the medicine is perceptible in the mouth and throat, similar to that which occurs after a dose of castor oil. This is sometimes followed by nausea, and now and then vomiting supervenes. At other times it acts, but much more rarely, as an aperient. But when these effects occur, they usually subside in a day or two It not unfrequently produces a glow in the region of the stomach, which extends over the chest and creates a sensation of cheerfulness and a greater freedom of breathing. I appears deserving a high rank among tonics: for in most of the cases in which it has been employed, a natural appetite was in a short time established. No remedial agent that I am acquained with possesses such power over the colliquative perspirations of pulmonary consumption; as a few doses, in most instances, appeared sufficient to effect their removal. Another fact worthy of remark, is the absence of diarrhea in all cases, which may be accounted for upon the supposition that tubercular de posite ceases to take place in the mucous track of the intestines. And even in those cases where diarrhed in the first instance, existed, it readily yielded to naphtha treatment. The thirty-third case is a good Headache, particularly example of this remark. when the bowels are confined, is sometimes the effect of the naphtha treatment, and if aperients fail togite relief, a mustard poultice should be applied to the back of the neck, or a few leeches to the temples, of behind the ears. It will, however, be very seldon necessary to suspend the employment of the naphiha from this cause.

According to Dr. Hastings, from the very first mo ment he employed naphtha in pulmonary consumption up to the present time, it has been so successful it "2d.—Some tuberculous secretion, highly charged his hands, that he has no doubt it will be found, with globules of tubercle, was placed under the field used judiciously, to be little less than a specific in the earlier stages of the disease. And, from what he | has more recently observed, he is most sanguine that even in the latter stages of the disease, a restoration of health may be generally calculated upon.

"The progress of improvement in the physical signs, when sufficiently marked, invariably commenced with an amendment of the sounds arising from percussion. In no case did they appear to begin with auscultation; consequently I am induced to form the opinion that, as diagnostic signs, those derived from anscultation take precedence of those from percussion, or, in other words, that changes such as prolonged expiration, and very slight, feeble and harsh respiration, may be detected by auscultation, when the sound elicited by percussion is not sufficiently appreciable to lead to any useful conclusion considered apart from auscultation,"

Many cases are narrated in which the naphtha was

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If experience proves these statements, Dr. Hasttings will, no doubt, be considered a benefactor to the human race. - Medico-Chirurgical Review, Oct. 1843.

Varus Mentagra and Gutta Rosea, the Sycosis Menti and Acne of Willan, Treated with sulphate of iron externally. By W. DAUVERGER.

Of all the modes of treatment recommended for these obstinate affections, the following appears to have been the most useful in the author's hands.

The sulphate of iron in different forms is the most efficacious local remedy for the pustular inflammation

of gutta rosea, and mentagra.

It is used in solution, either by bathing the part affected, or by applying linen dipped in it, or by sprinkling the ulcerated parts of the mentagra with a mixture of charcoal and sulphate of iron. ture need not be finely levigated, for it then forms a crust too easily removed by washing the beard. spite of his previous opinions, M. Dauverger also tried a pommade of sulphate of iron, but was obliged to give it up. The following are the formulæ employed by him.

No. 1.—Sulphate of iron twenty-five grammes. Distilled water two hundred grammes. Dissolve.

No. 2.—Sulphate of iron fifty grammes. Distilled water two hundred grammes. Dissolve.

No. 3 .- Ferro carbonic powder. Sulphate of iron ten grammes. Charcoal thirty-five grammes. Powder

The author first treats the inflammatory symptoms with emollients; when he thinks them sufficiently reduced, he orders the patient to bathe the part twice a day with two glasses of warm water containing one or two spoonfuls of the solution No. 1. A quarter of an hour afterwards, he prescribes a local bath of an emollient decoction; and afterwards, if possible, the application of a poultice of the same kind. When no further improvement takes place under this treatment, he has recourse to No. 2, which is twice the strength of the former, and proceeds in the same way. The author employs general means of treatment at the same time, -Lon. Med. Gaz. from Gazetle Medicale, Sept. 9, 1843.

CONVENIENT MODE OF ADMINISTERING OIL OF TURPEN-

The oil of turpentine is very often used internally, and might be employed still more frequently, were it

pentine emulsion, and the different terebinthinous mixtures, all fail in masking the disagreeable taste of this medicine. The following, however, is the form of an electuary which M. Bouchardat assures us may be administered with the greatest ease.

Take of gum acacia, ten grammes; mix it with ten grammes of water; add of white honey, fifty grammes; oil of turpentine, fifty grammes; carbonate of magnesia, q. s. Make a soft elec-

tuary.

The dose is from 2 to 10 grammes (36 to 180

grains) a day, in unleavened bread.

In some cases a little opium, or from 10 to 20 drops of Rousseau's laudanum, may be added to the mucilage in the above mixture, -Lon. Med. Gaz. from Bulletin Général de Thérapeutiqué, Sept. 22. 1843.

ON THE FREQUENCY OF CRIMINAL ABORTION.

We have observed that the newspapers have been unusually full of late of cases in which the attempt to produce criminal abortion has come under the cognizance of the legal authorities, in consequence of the injurious or fatal consequences to the unhappy females involved; but we cannot help thinking, both from our own experience and from that of many of our professional friends, that the number of instances in which this crime is perpetrated successfully, and without detection, is out of all proportion to the comparatively small number of cases that are found out

and punished.

But this, like many other evils, is much more easily lamented than remedied. So long as the existing state of civilization places restrictions on early marriage-so long as the indiscretion of youth, and the habitual sensuality of maturer years, have their force-and so long as the loss of her fair fame and social position hang over the head of the guilty female-in other words, so long as human nature remains what it is, the attempt will continue to be made to conceal and destroy the fruit of sexual transgressions. And our own experience leads us to believe that the attempt is by no means so difficult as some writers seem to respresent it. We find Dr. Guy, for instance, in his excellent "Principles of Forensic Medicine," stating as the result of his investigations, " that there is no one medicine which can be depended on as a means of producing abortion; that, if given in doses short of those which would destroy the life of the mother, they would almost certainly fail of accomplishing their purpose; that, when they do succeed, they place the life of the mother in jeopardy, and often sacrifice it; and that, for every case in which the mother escapes, there is, probably, one at least in which the mother and her offspring both fall a sacrifice, and one in which the mother dies, the child remaining uninjured in her womb.

"The fact is, that none but poisons, or medicines administered in poisonous doses, can be expected to produce abortion in any case, unless the predisposition to abortion is already very strong. When such predisposition does not exist, the mother is much more likely to fall a sacrifice, whilst the child remains intact in the womb, or is even born alive, than the child to be expelled, and the mother to survive; in other cases both the child and offspring will pe-

rish."

Now, we cannot help thinking that the danger and difficulty are both considerably overstated by Dr. Guy, and other writers on the subject, provided that the means are used cautiously, and by a practised not that the usual formulæ for its administration, such hand. Instances are common enough, within the as the terebinthinous either, or Durand's remedy, tur- circle of our own professional observation, in which Med. Jour.

young women have confessed that they have been pregnant, but that they have taken something which has made them right again, as they express it; and we have heard of a French hag, living somewhere near Marylebone-lane, who enjoys no small share of fame for her success, the means which she employs consisting in the daily administration of the oils of pennyroyal and savine, with a violent cathartic at intervals of two or three days.

We may be asked, what is the use of calling attention to these circumstances, degrading as they are, but almost irremediable? We answer, that there but almost irremediable? may be one small class of cases in which the crime is committed in ignorance of its real nature and enormity. More than one accoucheur has a story to tell of an innocent-looking girl requesting to be disburdened of the fruits of clandestine sexual commerce, with as much coolness and naïvete as if she wished to be relieved from a troublesome tooth; and when remonstrances are made upon the wickedness of such a proceeding, the common reply is, that " there can be no harm in doing so before the little thing is alive, but that, at a later time, it would be very wicked, and not to be thought of." In fact, the opinion that the fætus, for the first two or three months, is an insensate vegetable mass, but that it becomes quick at a definite period, was once held true in medicine, and adopted as the principle of legislation, and, although now discarded, it still lingers, like a thread-bare garment, amongst the lower orders of society; and it

DRS. HAPLIN AND JOHNS ON PUERPERAL CONVUL-SIONS.

serves, perhaps, to quiet the scruples of some few of

the less hardened offenders. Here, therefore, is an

opening, although we fear a very limited one, for the

diffusion of medical knowledge, as a means of

diminishing mortality and preventing crime.-Prov.

In the September number of the "Dublin Journal," are two papers by the above named gentlemen on this prevalent and alarming disease. Dr. Johns wishes to call particular attention to the fact, that however sudden the seizure may apparently be, certain premonitory symptoms are seldom or never wanting; and that if these are met with prompt and judicious treatment, the attack may generally be prevented. We may remark, that Osiander states that a tumid state of the face and superior extremities almost always precedes the attack, and it is this symptom which Dr. Johns thinks so important as a precursory sign. "It is familiarly known," he observes, "that during the last months of pregnancy, swelling and ædema of the inferior extremities very frequently occur, and these symptoms are justly considered as a harmless complication; but if a similar affection is observed to attack the superior parts of the body, as the hands and arms, the neck and the face, the case will then require a more close and accurate examination: for if in combination with this symptom their exist headache, weight, or giddiness in the head, ringing in the ears, temporary loss of vision, severe pain in the stomach, with flushed face, there will be risk of convulsions; a risk that will be converted into certainty, if—1st, The woman is pregnant for the first time, or has similarly suffered in ormer pregnancies; 2nd, When the head of the where the woman is of a full and plethoric habit." debility, and what has been called cerebral irritation, Dr. Johns subsequently gives twenty-one cases of are more prominent. It is chiefly distinguished from

last two years, in eighteen of which ædema of the face and superior extremities was present. Haplin comes to the following general conclusions:-

1. Puerperal convulsions occur most frequently in first pregnancies; the ratio being six in seven.

2. Amongst the predisposing causes, the age of the patient seems to have much influence. In onefourth of the recorded cases, the women were above twenty-eight years old.

3. There is no decided premonitory symptom in-

variably present.

4. The presentation is almost invariably natural. 5. They are always attended with danger both to the mother and child. One-fourth of the mothers, and two-thirds of the children perish.

6. In the treatment of this disease, copious blood. letting, early resorted to, and rapidly effected, is a

measure of the first importance.

7. Active purgatives should be administered, either by the mouth or in injections, until the stomach and bowels are thoroughly cleansed of offensive

8. Should those measures fail in controlling the disease, the uterus should be emptied of its contents as early as the state of the parts will admit of its being done without violence.

9. The natural effects are frequently sufficient to

effect the delivery.

10. When interference is required, the forceps or vectis, are to be preferred in many cases to turning or the perforator; as

11. With the perforator the children are necessarily

destroyed; and

12. Turning the child is attented with great danger to the mother, as five out of the seven of those on whom it has been practised have died.—(Collins.)

13. The pathological appearances are frequently insufficient to account for the violence of the symptoms that characterise this disease.—Prov. Med.

DELIRIUM TREMENS.

BY HENRY JOHNSON, M. D.

As a substitute for delirium tremens, Dr. Johnson proposes the term Hypophrenitis, "as more expressive of its peculiar nature than the old one. Independent of my own observation, it would be easy to adduce authorities to prove that delirium tremens is, in many cases, neither more nor less than phrenitis. The phenomena during life, and the appearances after death, show this. It does not, indeed, bear the active and decided treatment which ordinary phrenitis endures and requires. This is because it arises from a peculiar debilitating cause, and in a constitution weakened by excess. The inflammatory symptoms which may have appeared at first, soon give way to those of depression and irritation. Hence the utility of sedative and narcotics, or a combination of these with stimulants. I have, therefore, named this disease hypophrenitis, as a less acute form of the disorder, with greater tendency to debility, and it is, I think, correctly placed between phrenitis and the next disease (insanity.) Its affinity to the former is made evident, by the frequent occurrence of cases which require the treatment of phrenitis; and its relationship to the latter is shown by its occasional degeneration into insanity. In some instances convulsions, actual or threatened, occurring within the phrenitis by the presence of tremor, by the soft,

quick pulse, the abscence of intolerance of light, the profuse perspirations, the nature of its cause, the peculiarity of the delirium. The countenance is anxious and depressed; the mind is continually and painfully engaged with the customary pursuits and occupations of the patient.

The majority of cases of this disease recover in a When fatal, the signs of morbid action within the head are not very marked, but enough to show the character of the disease. The arachnoid is found slightly opaque, the pia mater injected, and

effusion of serum within the ventricles."

The obscurities which have so long beset the subject of delirium tremens, and the diversities of opinion entertained as to its nature and treatment, are, we think, inseparable from the hitherto prevailing systems of medical study, in which the disease was taken as the substance, the patient as the accident; in which inflammation was considered an intruding something, which must be reduced to submission by bleeding and starvation, and in which no room was found for the idea of vascular turgescence and structural change, as consequences of slow misuse of function or disturbance of nutrition; or of their thus being prevented at first by means which would aggravate them if employed subsequently. Hence the confusion of opinions; the conflicting treatment proposed for the same name of a disease; the idea inconceivable that quiet anodynes and nourishment could prevent a state which required subsequently the abstraction of blood, and which left turgid blood-vessels and opaque membranes, as supposed evidence of its in-flammatory character. An improving method of study, the restriction of morbid anatomy to its proper purposes, and a more cautious application of abstract terms, will, we trust, before many years have elapsed, clear away some of the apparent opprobrium incurred by the proposal of opposite treatments for the same disease."—Ib.

MORTALITY AFTER AMPUTATION.

The striking fallacy of deductions to the mortality of operations, founded on a short period of observation, is well shown by comparison of the last two tables with those given in the preceding report; for it appears that of 16 amputations performed during the last nine months, 11 were cured and 5 died; whereas, out of 72 cases the number which occurred during four years, 37 were cured and 35 died.

Statistical Tables of the Royal Infirm. of Edinburg.

OBSERVATIONS ON THE MUSCLE OF THE LACRYMAL SAC, OR TENSOR TARSI.

My attention to this muscle, as a part distinct from the orbicularis palpebrarum, was, with most anatomists I presume, first directed by Dr. Horner, of Philadelphia, about the year 1821. On re-examining the muscle at that time, it appeared to me-1st, that many would be disposed to view the tensor tarsi merely as a more or less detached portion of the sphincter. 2dly, What was most evident to myself, its anatomy had not been given correctly by Dr. Horner. From that time to the present I have often had occasion to repeat these remarks, but did not deem the matter worthy further notice. Lately, vever, I observe that a very distinguished oculist and surgeon, Dr. W. Mackenzie, of Glasgow, has reviewed the matter in an historical point of view, contesting the discovery of the muscle with Dr. Horner, and restoring it to Du Verney, to whom the

This called my attention again to the muscle; and as both the descriptions of Du Verney and of Dr. Horner are inaccurate, conveying to the student of anatomy and physiology a false notion of the shape, extent, uses, and connection of the muscle with the orbicularis, I have thought it worth while to submit

the following brief observations.

In 1805, Rosenmüller gave a drawing of the muscle, and a method of dissecting it. There can be no objection made to his method of display, but the drawing is very imperfect. He recommends the eyelids to be cut from the edge of the orbits, and laid down over the nose, and of course towards the opposite side : the membrana nictitans comes in view, which is then to be dissected off; below it will be found a quantity of fat, cellular substance, and nervous filaments, with a firm though delicate fascia of cellular membrane covering the surface of the mus-On removing this with the scalpel, a muscle of the size stated by Rosenmüller comes into view; it arises as if fleshy, and at once from the back of the os unguis, or where that bone meets the orbitar plate of the ethmoid, and proceeding forward and outward (but forward and inward as looked at during the dissection,) soon divides into two portions, proceeding to the inner surface of the tarsal cartilages. Now instead of stopping at the puncta lachrymalia, as described by Rosenmüller, and as is represented in his drawings, and as is described, I presume, by most anatomists of the day, the bifurcated muscle runs on quite to the opposite extremity of the eyelids, thus doubling that part of the sphincter coming from the upper and lower part of the tendo oculi, and forming in itself the more immediate and most powerful part of the sphincter of the eyelids. This at least is what I have often seen.

By this arrangement the sphere of action of the muscle, when fully developed; is much more extended than is generally supposed. It supports the eyelids, draws them forcibly towards the inner canthus, and in the most efficient way, being bound down by cellular substance to the lacrymal sac, retains the eyelids in apposition to the eyeball, which no part of the orbicularis, as it is now arranged, could have done. Relaxation of the eyelids may depend, I imagine, on a relaxed condition of this muscle; and that peculiar and contracted condition of the eyelids, which every surgeon must have observed in some persons subject to ophthalmia with inversion of the eyelids, in all probability may depend occasionally on a spasmodic state of this muscle.

I ought to have added, that there is a very good description of the tensor tarsi in the French translation of Meckel's Anatomy. - Lond. Med. Gaz.

A CAUTION RESPECTING NITRIC ACID.

We not unfrequently see prescriptions in which five or six minims of nitric acid are ordered for a dose, diffused in an ounce or an ounce and a half of This is a strong dose when the acid is of sp. gr. 1.4, as was the case with the acid generally used until lately. But since the publication of the remarks of Mr. Phillips on the subject, which drew attention to the fact that the acid ordered in the Pharmacopæia is of sp. gr. 1.504, the manufacturers nave supplied the article according to the correct standard; and the circumstance not having been sufficiently made known in the medical profession, patients have sometimes suffered from the inconvenience of taking a dose considerably stronger than was merit of having first described it evidently belongs. intended. In such cases we conceive it to be the

duty of the pharmaceutical chemist to impart that OBSERVATIONS AND RESEARCHES UPON A NEW information to the prescriber which shall enable him

to regulate the dose accordingly.

The maximum dose of acidum nitricum dilutum is stated in the Pharmacopæia to be forty minims (equal to four minims of the strong acid;) and we have no hesitation in stating that this quantity is quite sufficient, unless largely diluted, to act injuriously on the enamel of the teeth. On reference to some other authorities, we see the dose of strong nitric acid stated as "from five to ten minims;" and on this account might have felt a delicacy in animadverting on the subject, if we had not repeatedly heard serious complaints from patients. An instance lately occurred in which six minims were taken in an ounce of fluid, three times a day. In the course of two or three days the teeth were found to be seriously injured, to the great annoyance of the medical attendant, who was not aware that he had ordered more than might be taken with perfect safety. In all cases in which it is desirable to administer large doses of this powerful acid, care should be taken to dilute it sufficiently, and the patient should be directed to rinse the mouth with water, or a solution of carbonate of potash, immediately after having taken each dose. These precautions should never be neglected, by those who consider the preservation of a good set of teeth of any importance.

We may also observe that the strong nitric acid should never be used in dispensing in small quantities, as it is impossible to measure a few minims with so much accuracy as a proportionate quantity of

the diluted acid.

Nitric acid of sp. gr. 1.504, always contains a considerable portion of nitrous acid, which gives it a pale yellow colour. The action of light and air occasions the liberation of oxygen, and the consequent conversion of a further portion of nitric into nitrous acid. According to M. Millonthis is the case, more or less, with commercial nitric acid of all densities, but more particularly when highly concentrated; consequently, the Acidum Nitricum P. L., is not a convenient preparation for general use, and should be kept in the dark, and not unnecessarily exposed to the action of the air by the frequent removal of the stopper .- Pharm. Journ.

FLUID EXTRACT OF SENNA.

PY PROFESSOR CHRISTISON.

Take fifteen pounds avoirdupois or Tinnevelly senna, and exhaust it with boiling water by displacement: about four times its weight of water is suffi-Concentrate the infusion in vacuo to ten pounds; dissolve in the product six pounds of treacle previously concentrated over the vapour-bath, till a little of it becomes nearly dry on cooling; add twenty-four fluid ounces of rectified spirit (dens. .835;) and, if necessary, add water to make fifteen (16 oz.) pints—the object being that the preparation shall be of such strength that every fluid ounce shall correspond to one avoirdupois ounce of senna. Mr. Duncan, of Edinburgh, generally makes eighty pounds of senna into this extract in one operation. The numbers given are those by which he worked in the first instance. The dose is two drachms for an adult; it very rarely causes griping. It tastes precisely like treacle, and the absence of disagreeable taste is owing to the fact that pure senna has but a feeble mawkish taste, which treacle easily covers.

SOLVENT FOR STONE IN THE BLADDER.

BY ALEXANDER URE, A. M.

In pursuing some inquiries relative to the treatment of certain forms of urinary disease, my attention was directed to the properties of carbonate of lithia, a substance of which no therapeutic application has been heretofore made. It nevertheless occurs as a constituent of various mineral waters-namely, in those of the Kreuzbrunnen of Marienbad, of Klausen, of the Josephquelle at Bilin, of the Obersalzbrunnen in Silesia, of Lubien in Galicia, of the Kränchen at Ems, and of the Franzensbrunnen at Eger. The four first named waters have, according to Osann, one of the latest and most complete writers on the subject, been found of service in some unhealthy conditions

of the urinary organs. Carbonate of lithia dissolves in water at the ordinary temperature of 60° Fah., to the amount of one per cent. From its sparing solubility it may be said to form the connecting link between the earths and alkalies. It possesses a faintly alkaline by no means unpleasant taste. No opportunity has yet been afforded me of ascertaining whether it passes through the circulation unchanged, although analogy would lead to the supposition that such was the case. It has a remarkable affinity for uric acid, so much so, that if finely pulverised lepidolite (a hard siliceous mineral containing three or four per cent. of lithia) be boiled along with uric acid in water, urate of lithia is formed. A fact pointed out by M. Lipowitz, and which has been lately verified by himself.

According to the chemist above mentioned, one part of carbonate of lithia dissolved in water and boiled along with an excess of uric acid, dissolves four parts of the latter, which are held in solution, after cooling. Urate of lithia is indeed the most soluble salt which that acid forms. It crystallises by evaporation in the shape of small grains, which require sixty parts of water at the temperature of 122° Fah. to dissolve them. It contains 14.4 per cent. of

In order to determine the solvent powers of carbonate of lithia with reference to the uric acid and its compounds, at the common temperature of the human body, I instituted the following experiments:-

A solution of one grain of carbonate of lithia in an ounce of distilled water was brought to a temperature of 98°, and pure uric acid gradually added in minute portions until it ceased to dissolve. This quantity thus taken up was 2.3 grains. The resulting solution, which remained unchanged the following morning, being saturated with hydrochloric acid, threw down a precipitate of uric acid, amounting to two grains. Now it will be seen, by referring to my paper on the "solvents for calculous concretions," published in the fifth number of the "Pharmaceutical Journal," Vol. I, that one grain of crystals of soda dissolved in an ounce of water, took up only one grain of unc acid—that one grain of carbonate of potash took up 1.4 grains—one grain of borax 1.2 grains—and four grains of bicarbonate of soda 1.1 grains. Hence it follows that the solvent powers of carbonate of lithia is more than double that of carbonate of soda, nearly double that of carbonate of potash or borax, and about eight times that of bicarbonate of soda, which is the active ingredient of the Vichy water.

A human urinary calculus, now on the table of the society, composed of uric acid with alternate layers of oxalate of lime, having been most accurately poised, after being previously brought to hygrometric

repose, by digesting in fresh urine and then carefully dried, was placed in a solution of four grains of carbonate of lithia in an ounce of distilled water, and steadily maintained at a blood-heat by means of a water-bath, during five consecutive hours. On being withdrawn, nicely washed, and again dried as before, it was found to have lost five grains weight, which is at the rate of one grain an hour. The calculus is deeply eroded in different parts, but the delicate laminæ of oxalate of lime remain intact, imparting to the surface the appearance of deep etch-The menstruum acquired a pale yellow tinge, and there fell down from it on cooling a light flocculent deposite of urate of lithia, in which silky crystaline tufts could be discerned by help of the microscope It was still alkaline to litinus. Decomposed by means of hydrochloric acid, it yielded nearly three grains of pure uric acid. In another experiment the remaining half of the same calculus being allowed to stand during four hours in two ounces of the natural Vichy water, from the spring called Hôpital (containing three grains and a half of carbonate of soda), was found to have parted with two-tenths of a grain of uric acid; while the former portion of the calculus, placed under precisely similar eircumstances, at the same time, in a solution of 1.6 grains of carbonate of lithia to two ounces of distilled water, afforded ninetenths of a grain of uric acid. Thus is demonstrated the very superior solvent agency of the above feeble lithia solution over the Vichy water.

Half a grain of urate of soda (the ordinary basis of gouty concretions or chalk stones) diffused in an ounce of distilled water at the blood-heat, completely dissolved with the addition of one grain of carbonate of lithia the solution continuing limpid and unaltered; whereas, half a grain of the same urate in a similar quantity of water at a corresponding temperature, rests apparently unchanged, as may be seen in the two phials before you. Urate of soda, as pointed out in my paper on gouty concretions, published in Vol. XXIV of the Medico-Chirurgical Transactions, is

about as insoluble as uric acid.

It deserves notice, that when fresh healthy urine is rendered alkaline by earbonate of lithia, no deposition

A very large proportion of the stones which occur in the urinary bladder of man, are composed in whole or in part of uric acid. Of all the various menstrua hitherto recommended, none appears to promise more favorably than the carbonate of lithia, from the promptitude and energy with which in dilute solution it attacks calculi of this description. If by means of injection we can reduce a stone at the rate of a grain or more an hour, as the above experiment would lead as to anticipate, we shall not merely diminish the positive bulk of the calculus, but farther loosen its cohesion, disintegrate it, so to speak, causing it to crumble down and be washed away in the stream of urine. Cases may present themselves in which it may be expedient to conjoin the use of the lithontriptor; but only occasionally and at long intervals. It is the frequency of repetition which renders that instrument so hazardous.

It may be presumed, moreover, that the plan of throwing in a weak solution of this kind, would generally exercise a beneficial influence in obviating irritation, by removing the sharp angular points and asperities of the broken fragments, where the practice of crushing is adopted.

No apprehension need be entertained from the administration of injections if judiciously directed. Sir Benjamin Brodie found that the bladder bore

two minims and a half of nitric acid for each ounce of distilled water. An Austrian surgeon has recently introduced vinegar into the bladder, with excellent success, in an instance of phosphatic calculus. M. Lisfranc, the eminent French surgeon, has used in like manner tincture of cantharides for the cure of enuresis; and I myself have thrown a dilute solution of nitrate of silver into the bladder, with the best effect, in cases of chronic catarrh of that viscus.

Nothing has hindered me from trying the carbonate of lithia but its extreme searcity. I would, therefore, suggest the importance of its preparation to the Pharmaceutical chemist. The mineral called spodumene, which is found in Killiney, near Dublin, contains, according to Stromeyer's analysis, 5.6 per cent. of

lithia .- Pharmaceutical Journal.

URINE IN TYPHUS. BY DR. SIMON, OF BERLIN.

In the second volume of my "Medical Chemistry" I have spoken of a peculiar character of the urine in typhus, to which my attention was first directed by Dr. Schönlein, and is important as well with respect to the development of the morbid process as for the This regards the circumstance of the prognosis. urine becoming alkaline at certain times, which alkalinity lasts for a certain time, after having had at first a strong and acid reaction for some time, and the simultaneous occurrence of sediments, which, according to their nature, may bear a different signification, and whose appearance together with the reaction of the urine may be of considerable import, if correctly appreciated, with respect to the development With respect to this matter, of the disease. Schönlein remarks, that in the regular course of typhoid disease the urine is found at first to be dark, and to have a very acid reaction, whilst subsequently it becomes neutral and then alkaline; lastly, when the disease is tending to improve, the acid reaction again sets in. I had previously made observations which entirely correspond with these; but I have, on the contrary, seen cases where the urine presented quite different properties,-it either continued permanently acid, or else became alkaline, only, however, for a short time, and soon again it resumed the acid reaction; in some cases an amendment took place, but on two occasions death followed. I afterwards followed up my enquiries regarding the urine in typhus with increased attention, and to the two cases previously observed I can now add six new ones, which further confirm the properties just mentioned. In the one case the urine was slightly alkaline on the seventh day after the patient's admission, and continued so, or with a neutral reaction, for seven or eight days, then it again became slightly acid and clearthe patient recovered. In a second more serious case the urine was acid up to the 21st day, the pulse rose up to 120; then the urine commenced to become neutral, then alkaline; the nervous phenomena became more mild, the frequency of the pulse diminished; this state lasted from 10 to 11 days, during which time the urine flowed very copiously, became pale, and evinced a weak acid reaction. In two other cases the change of the acid into the alkaline reaction occurred before the 14th day of the disease, and in one of these cases the urine was so very intensely impregnated with carbonate of ammonia, and had so very stinking a smell, that it extended entirely over the sick chamber; the urine deposited a considerable pus-like or mucus-like sediment, consisting of phoswithout inconvenience a stream of fluid composed of phate of lime and phosphate of magnesia, and when

mixed with acids effervesced violently; not till fourteen days after, and in the last case three weeks, did the urine evince an alkaline or neutral reaction, the acid reaction then gradually became established, and both parties recovered. It is deserving of notice that a secretion of urate of ammonia not unfrequently precedes the occurrence of the alkaline reaction and the appearance of the earthy phosphates in the urine, which, as Schönlein remarks, is in some measure to be considered as the precursor of the favorable change in the urine, and as the first critical effort of nature. The last time, when the process of the typhous disease appeared in a much milder form, this peculiar change of the reaction of the urine was in like manner observed several times, so that after the alkaline reaction has preceded and continued for some time, the recurrence of the acid reaction, combined with the clear appearance of the urine and a more copious secretion of the fluid, may be looked on as a favorable sign for the successful solution of the disease, whilst on the contrary, I remember some cases since the year 1840 where the urine came to have a neutral or alkaline reaction, but passed soon again into the acid reaction, in order to become alkaline again at a subsequent period, but in like manner only for a very short time: in one of these cases the disease was extremely tedious, and terminated fatally .- Provincial Medical Journal, from Beiträge Zur Physiologischen und Pathologischen, Chemie Mikroskopie.

URINE IN SCARLATINA.

By Dr. SIMON, of Berlin.

It is very incumbent on the rational physician to observe the urine in scarlet fever. It is well known how often the dropsy consecutive on scarlatina is indicated by the albuminous contents of the urine: however, I must observe that dropsy takes place after scarlatina without albuminuria, and that, under certain circumstances, though rarely, albuminuria occurs without dropsy following it. But in the case of scarlatina another phenomenon also merits attention-one which has been repeatedly pointed out by Schönlein, and by which the desquamation of the inner mucous membranes is indicated. The signs of desquamation of the mucous membrane of the bladder after scarlatina I have constantly observed, and it seems so much the more necessary that attention should be directed to this interesting phenomenon, and one so important with respect to the course of the disease, as in several cases the desquamation of the mucous membranes precedes that of the external skin; and, accordingly, the physician's attention is called to a period of this disease of so much importance. The urine becomes somewhat turbid, and after a length of time throws down a mucous sediment. When this is observed with the microscope, there are observed floating about portions of epithelium, partly single, and partly com-bined into several shreds. With these signs of desquamation of the bladder I have, moreover, observed those of severe irritation of this mucous membrane in the form of mucus-corpuscles. The cases where I saw albuminuria take place in adults after scarlatina are but few, and I cannot decide whether the albuminuria coincided with this process of desquamation. Another species of desquamation of the internal mucous membrane I have, a little while since, observed in the wards of Dr. Schönlein. A young girl, in whom desquamation of the outer skin, simultaneous with desquamation of the mucous membrane of the bladder, without, however, severe irritation of the kidneys, had occurred, complained of irritation in the organs of deposited .- Ibid.

deglutition and in the trachea; she coughed up much mucus, and in the spitting-glass there appeared a purulent-looking sediment, which, on more minute examination with the microscope, showed itself as composed of numberless partly single portions, and partly

of epithelial fragments united in shreds.

I obtained from Dr. Braun, of Berlin, a bloody urine for examination, with the question-whether its physical and chemical qualities were such as would warrant us in inferring the existence of scarlatina? The urine deposited a considerable sediment of a blood-red color, in which four different forms might be recognised—namely, numerous blood-corpuscles, a very large quantity of those cylindrical forms described in Bright's disease, mucus-corpuscles, and a large mass of uric acid, separated partly in rhombic crystals, partly in rather large round globules. The cylinders were of smaller width than I had observed them on a former occasion, and all of them were filled with a yellowish, dark, as it were, crystalline contents, which, in their outer appearance with respect to color and form bore some resemblance to uric acid separated in globules. These globules themselves might have been taken for the so-called inflammation-globules; they differ from them, however, in this, that on pressure they are commonly broken up into four or more globular fragments; some of the cylinders also admit of being crushed in this way, and from the character of the fragments I concluded with greater probability that the contents were a yellow-colored uric acid. The light red colored urine, which became clear over the sediment, contained a considerable quantity of albumen, and indeed much more than could be ascribed to the blood-serum. From this microscopical and chemical examination of the urine it was quite impossible to determine with certainty on the part of the chemist whether the irritation of the kidneys was the consequence of scarlatina; all that could be said with anything like conviction was that a very violent irritation of the kidneys was present. Dr. Braun was kind enough to make to me the following communication regarding the case itself. A boy, six years old, of a decidedly scrofulous habit of body, voided a blood-colored urine one night, after having first complained of headache during the day; the physician who was called in finds the patient in a low fever, and because his experience of late had led him to observe hæmaturia renalis in children merely as an ordinary precursor or accompanier of scarlatina, he examines him for this disease; however, neither eruptions nor angina, neither desquamation or ædema was observed; still the local examination confirmed the existence of renal irritation as perceptible from the urine; the right renal region was very sensible on pressure, and from thence there was violent pain along the abdomen to the umbilicus. Leeches were prescribed, and mild derivatives were ordered. On the next day there was some improvement; the hæmaturia renalis continued for three days; then again an improvement took place. On the night from the twelfth to the thirteenth day of the disease there was again a passage of bloody urine, some of which was sent me for examination: great restlessness; acute hydrocephalus closed the scene on the sixteenth day. Shortly before death the urine flowed copiously, and free from blood; on the second appearance of the hæmaturia, shortly before death, the pain which accompanied it during the first days did not return. This case is certainly interesting; nor can I feel myself warranted in concluding whether there existed a degeneration of the kidneys, or whether the irritation of the kidneys was occasioned by scarlatina or by the great quantity of uric acid that was

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